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### [1. DHP12-011: Antimicrobial Textiles](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: The objective of this research is to develop durable, scalable, robust and effective long-term antimicrobial textile finish. DESCRIPTION: There is a continuing need for antimicrobial textiles to provide a range of capabilities to the DOD. These include improved hygiene for soldiers via integration into uniforms to control odor; in medical textiles to control the transmission of p ...

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### [2. DHP12-012: Biosensor and Controller for Closed Loop Anesthesia Delivery System](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop solution to enable closed loop anesthesia delivery system that can be used in far forward operations with regulatory plan for FDA approval, leading to commercialization of the product for use in the United States. DESCRIPTION: Total intravenous anesthesia (TIVA) technique through a target controlled infusion (TCI) approach is an accepted method of inducing and maintaining sed ...

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### **[3. DHP12-013: Drug Delivery System for Topical Treatment of Peripheral Neuropathy](#)**

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop a controlled, target-specific delivery system for topical treatment of peripheral neuropathy. DESCRIPTION: Peripheral neuropathy (PN) is a painful, debilitating, and often chronic condition associated with diabetes, cancer treated with various chemotherapies, and a wide variety of other diseases and conditions, such as infections, environmental/toxic exposures, alcoholism, an ...

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### **[4. DHP12-014: Development of a Biometric Model for Use in Addressing Pelvic Blast Injury](#)**

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop and validate a biometric model for use by the medical research community to address dismounted complex blast injury of the pelvis, abdomen, and genitals. DESCRIPTION: In Afghanistan, military medical healthcare providers have expressed an interest in providing protection to soldiers to mitigate dismounted complex blast injury (DCBI). Specifically, they would like to provide ...

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### **[5. DHP12-015: Objective Method for Pain Detection/Diagnosis](#)**

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop an objective assay for the rapid and reliable detection/diagnosis of pain and its intensity for use with the traumatically injured including the severely cognitively impaired and sedated patients. The developed assay may include but is not limited to biomarker, imaging, electrophysiological, and other physiological and behavioral monitoring techniques. DESCRIPTION: A high pe ...

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### **[6. DHP12-016: Development of Technologies that Control Scar Contracture after Burn Injuries](#)**

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: The objective of this effort is to design a new innovative technology to intervene during the wound healing process (i.e. inflammatory, proliferative and/or remodeling stages) as to attenuate/control scar contracture and retain skin aesthetics following deep tissue burn injuries. DESCRIPTION: Here we recognize 450,000 burn injuries requiring medical occur in the U.S. each year. Ap ...

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